#9 CHLORINATOR GRAPH [AROCLOR 5460]

TO: R.A. HAYDEL 6-25-68

FROM: DANN SELF

ATTACHED IS A GRAPH SHOWING THE RELATION BETWEEN 80% SOFTENING POINT AND THE END SOFTENING POINT AND THE ON STREM TIME BETWEEN THESE TWO POINTS. BASED ON STATISTICAL ANALYSES STILL IN PROGRESS WE RECOMMEND THAT FOR THE # 1 RUN AN END POINT OF 114° BE USED; AND FOR THE # 2 RUN AN END POINT OF 110° BE USED.

WE ALSO RECOMMED THAT THE OPERATORS, USING THIS GRAPH, CONTINUE TO TAKE AND RUN SAMPLES BEFORE DISCHARGE AT LEAST FOR THE NEXT FOUR WEEKS. AT THAT TIME WE (TSD) WILL ANALYZE THIS DATA AND LET YOU KNOW IF THE SECOND PHASE OF OUR PLAN IS FEASIBLE. THE SECOND PHASE IS TO TAKE AND NOT RUN THE FINAL SAMPLE UNTIL AFTER DISCHARGE AND RECHARGE FOR NEXT BATCH.

THE OPERATORS HAVE BEEN USING A 9°/HR RISE IN S.D. AS A GUESS; AND STATISTICS SHOW A GOOD AGREEMENT OF 8.75°/HR. A GOOD GUESS ON THEIR PART I'D SAY.

FOR CLARITY, THE TIME AXIS IS MARKED ALLOWING EACH SMALL BLOCK TO REPRESENT 5 MINUTES. THE HOURS ARE MARKED BY NUMBERS.

PCB-ARCH-EXT0378125

9 CHLORINATOR GRAPH [AROCLOR 5460] 1

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THE OPERATORS HAVE BEEN USING A 9°/HR RISE IN S.P. AS A GUESS; AND STATISTICS SHOW A GOOD AGREEMENT OF 8.75°/HR. A GOOD GUESS ON THEIR PART I'D SAY.

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PCB-ARCH-EXT0378126

AROCLOR 5460
SP vs TIME

No. 9 CHLORINATOR GRAPH

FOR CLARITY, the TIME AXIS IS MARKED ALLOWING FIVE MINUTES TO EACH SMALL BLOCK. THE HOURS ARE MARKED.

THE TIME IS MEASURED FROM the 80% POINT to the END POINT, ACCONTING for THE ON STREAM TIME ONLY.

WHEN 80% SOFTENING POINT IS DETERMINED go to GRAPH AND FIND the LINE that BEGINS AT this POINT. Follow this LINE UP to the DESIRED END POINT AND READ THE TIME FOR THIS INTERSECTION.

THIS ONLY WORKS WHEN 80% BELL IS SET FOR 16,000 LBS. (include on chart)

EXAMPLE ON GRAPH READING:

SUPPOSE YOU DETERMINE YOUR 80% POINT to be 85°C, AND YOU WISH AN END SOFTENING POINT of 114°C FOR RUN #1 AND AN END POINT for RUN # 2 of 111°C. By STARTING AT 85° LINE, following it up to 114° WE SEE that WE should cook that batch 3 hr. 20 min. PAST the 80% POINT. FOR 111° BATCH RUN#2 WE should cook for 2 hr. 55 min. PAST THE 80% POINT.

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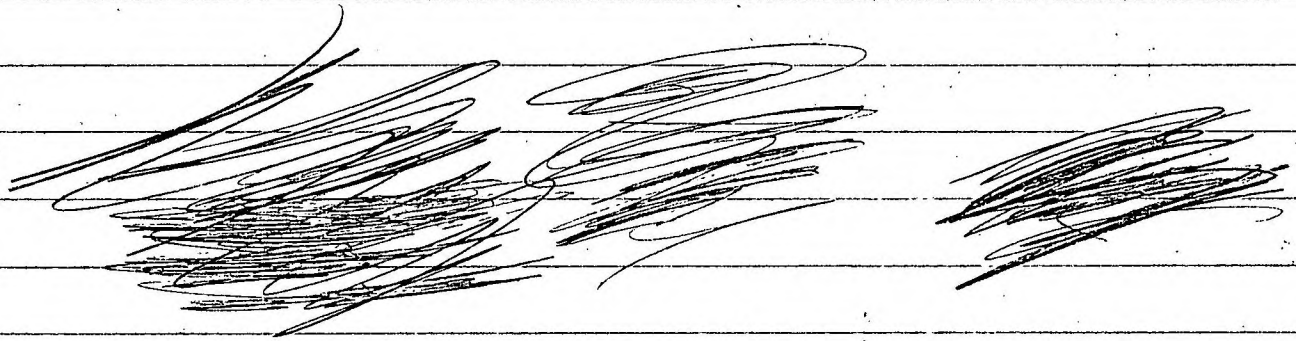
recommend run sample before recharge for 4 wks then we (TSD) will look over accumulated data and will let you know if we can go into 2nd phase - wk

The next phase is to take sample discharge and recharge chlorinator and then run sample.

The operators have been using 9°/hr rise in S.P. and statistical analysis has shown this agrees well with actual of 8.75°/hr.



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